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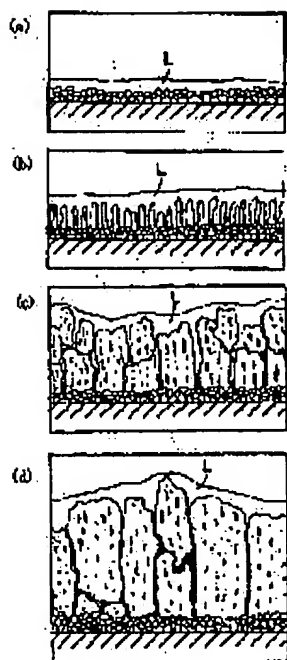
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(21)Application number : **2002-028207** (71)Applicant : **SUMITOMO SPECIAL  
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(54) **SINTERED MAGNET USING RARE EARTH-IRON-BORON ALLOY POWDER  
FOR MAGNET**



(57)Abstract:

PROBLEM TO BE SOLVED: To provide rare earth-iron-boron alloy powder in which a heavy rare- earth element such as Dy exists in a main phase in a relatively higher concentration than in a grain-boundary phase and which is easily sintered, and to provide its manufacturing method.

SOLUTION: The rare earth-iron-boron alloy for magnet comprises, as the main phase, a plurality of  $R_2Fe_{14}B$  type crystals (where R is at least one element selected from the group consisting of rare earth elements and yttrium) in which a rare earth element enriched phase is dispersed inside, and the main phase contains

Dy and/or Tb in a concentration higher than those in the grain- boundary phase.

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#### LEGAL STATUS

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